

UNITED STATES PATENT OFFICE.

ROBERT MACKILL, OF GLASGOW, SCOTLAND.

COMPOSITION FOR SHEEP-DIPPING.

SPECIFICATION forming part of Letters Patent No. 608,466, dated August 2, 1898.

Application filed July 27, 1897. Serial No. 646,125. (No specimens.)

To all whom it may concern:

Be it known that I, ROBERT MACKILL, a subject of the Queen of Great Britain and Ireland, and a resident of Glasgow, Scotland, have invented an Improved Composition for Sheep-Dipping and Analogous Purposes, of which the following is a specification.

My improved composition is of a higher degree of efficiency and yields better and more reliable results than the compositions or substances hitherto used for the like purposes.

The improved composition is a combination of cresylic acid or cresol with nicotine and is prepared as hereinafter described.

Hitherto tobacco has been applied for similar purposes in various forms, such as tobacco powder, tobacco infusion, and tobacco extract, known also as "tobacco juice," which is merely a decoction of tobacco or an infusion of it in water and concentrated by evaporation. The disadvantages of these ordinary preparations are that, first, none of them contains more than a few units' per cent. of nicotine, and even that is not in a free state, but is combined with acids, such as citric acid and malic acid, forming salts or compounds of nicotine which are of slow or feeble action as compared with the alkaloid in the free state; second, they consist, chiefly, of extractive and useless organic matters and contain coloring-matters which discolor and deteriorate the wool; third, they are bulky, and it is therefore necessary to provide packages and packing for transit by sea and over land for ten or twenty times the amount of material really required or that is effective, thus greatly increasing the cost.

In preparing my improved composition I take alkaloid nicotine (from which acids and

impurities have been separated as completely as practically possible) and stir it continuously and thoroughly with the requisite quantity—say about an equal weight—of cresylic acid, whereby I obtain a substance which has all the potency of the nicotine in the free state and which is free from the disadvantages of the preparations hitherto employed. The combination of cresylic acid with it does not reduce the potency of the nicotine as it does when combined with tobacco or any of the preparations of tobacco hitherto used. The nicotine can be prepared economically on a commercial scale and so that it can be sold of a definite and uniform strength, and a definite strength of sheep-dipping composition can be made with it without the uncertainty inseparable from the ordinary compositions.

What is obtainable commercially as low-priced carbolic acid consists in reality of a large proportion of cresol or cresylic acid and may be used as cresylic acid in making my improved composition.

What I claim is—

An improved composition for sheep-dipping and analogous purposes and formed by combining cresylic acid or cresol with nicotine from which the other constituents of tobacco have been separated as completely as possible.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT MACKILL.

Witnesses:

WILLIAM HASTIE,
GEORGE PATTERSON.